

# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

ATTY. DOCKET NO.  
43888-098

SERIAL NO.  
09/807,692

APPLICANT  
Motokazu WATANABE, et al.

FILING DATE  
April 17, 2001

GROUP  
1753

(PTO-1449)

## U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Code(s) (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US			
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## FOREIGN PATENT DOCUMENTS

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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
an	✓	CAPLUS MASLINSKA-SOLICH "Maleic Anhydride Copolymers in Clinical Analysis" <i>Chemia Stosowana</i> (1990), 34 (1-2, 11-22).
an	✓	WILSON, et al. "Review Article: Glucose Oxidase: an Ideal Enzyme" <i>Biosensors &amp; Bioelectronics</i> 7 (1992) 165-166.
an	✓	MATSUSHITA, et al. "Bacterial Quinoproteins Glucose Dehydrogenase and Alcohol Dehydrogenase" Principles and Applications of Quinoproteins, ed. Victor L. Davidson (1992) 47-63.
an	✓	SHUL'GA, et al. "The Effect of Divalent Metal Ions on the Performance of a Glucose-Sensitive ENFET Using Potassium Ferricyanide as an Oxidising Substrate" <i>Sensors and Actuators B</i> 26-27 (1995) 432-435.
an	✓	CAPLUS KAWAGURI, et al. "Biosensor for Microanalysis of Body Fluids." JP 02/02448 A2
an	✓	JAPIO MARIKO, et al. "Biosensor." JP 02/02448 A
an	✓	"2,4,6-Collidine" <i>Encyclopedia of Reagents for Organic Synthesis</i> .
an	✓	"Colicins" and "Bacteriocins" <i>Encyclopedia of Molecular Biology and Molecular Medicine</i> .
an	✓	GOODWIN, et al. "The Biochemistry, Physiology and Genetics of PQQ and PQQ-containing Enzymes" <i>Advances in Microbial Physiology</i> vol. 40, ed. R.K. Poole (1998) 1-80.
an	✓	YOSHIOKA, et al. "Disposable Biosensor Based on Bioelectrochemistry" <i>National Technical Report</i> vol. 42 no. 2 (April 1996) 71-75.
an	✓	CAPLUS CUCINOTTA, et al. "Three-Dimensional Cyclodextrin: a New Class of Hosts by Trehalose Capping of .beta.-cyclodextrin." <i>J. Inclusion Phenom. Mol. Recognit. Chem.</i> (1998) 25(1-3, 39-42).
an	✓	CAPLUS TAKASHI, et al. "Effect of a Trehalase Inhibitor, Validoxyamine A, on Three Species of Flies" <i>Appl. Entomol. Zool.</i> (1995), 30(1, 231-239).
an	✓	TAKAHASHI, et al. "Thi424 to Asn Substitution Alters Bivalent Metal Specificity of Pyrroloquinoline Quinone Glucose Dehydrogenase" 1997, <i>J. Biochem. Mol. Biol. &amp; Biophys.</i> , Vol. 1, pp. 89-93.
an	✓	WITARO, et al. "Secondary Structure Study of Pyrroloquinoline Quinone Glucose Dehydrogenase" 1999, <i>J. Biochem. Mol. Biol. &amp; Biophys.</i> , Vol. 1, pp. 209-213.

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an Nagasawa

8/29/03

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an	-	DOKTER, et al. "Cytochrome b-562 from Acinetobacter Calcoaceticus L.M.D. 79-41" 1988, Biochem J., Vol. 254, pp. 131-138.
an	-	SODE, et al. "Isolation of a Marine Bacterial Pyrroloquinoline Quinone-Dependent Glucose Dehydrogenase" 1995, J. Mar. Biotechnol., Vol. 2, pp. 214-218.
an	?	GEERLOR, et al. "Haem-Containing Protein Complexes of Acinetobacter Calcoaceticus As Secondary Electron Acceptors for Quinoprotein Glucose Dehydrogenase" 1989, Antonie van Leeuwenhoek, Vol. 56, pp. 81-84.
an	-	JIN, et al. "PQQ as Redox Shuttle for Quinoprotein Glucose Dehydrogenase" 1998, Biol. Chem., Vol. 379, pp. 1207-1211.
an	-	HAUGE, Jens G. "Kinetics and Specificity of Glucose Dehydrogenase From Bacterium Anitratum" 1960, Biochim. biophys. Acta, Vol. 45, pp. 263-269.
an	-	OUBRIE, et al. "The 1.7 Å Crystal Structure of the Apo Form of the Soluble Quinoprotein Glucose Dehydrogenase from Acinetobacter calcoaceticus Reveals a Novel Internal Conserve Sequence Repeat" 1999, Vol. 289, pp. 319-333.
an	-	HAUGE, Jens G. "Purification and Properties of Glucose Dehydrogenase and Cytochrome b from Bacterium Anitratum" 1960, Biochim. Biophys. Acta, Vol. 45, pp. 250-262.
an	-	WANNER, et al. "First Experimental Structure of a 1:1 Metal Complex with a PPQ Cofactor Derivative Ouside Dehydrogenase Enzymes" 1999, Inorganic Chemistry, Vol. 38, No. 11, pp. 2753-2755.
an	-	DEWANTI, et al. "Reconstitution of Membrane-Integrated Quinoprotein Glucose Dehydrogenase Apoenzyme with PQQ and the Holoenzyme's Mechanism of Action" 1998, Biochemistry, Vol. 37, No. 19, pp. 6810-6818.
an	-	ALKASRAWI, et al. "A Redox Hydrogel Integrated PQQ-Glucose Dehydrogenase Based Glucose Electrode" 1999, Anal. Communication, Vol. 36, pp. 395-398.
an	-	MOR, et al. "Assay of Glucose Using an Electrochemical Enzymatic Sensor" 1977, Analytical Biochemistry, Vol. 79, pp. 319-328.
an	-	DUINE, et al. "Glucose Dehydrogenase From Acinetobacter Calcoaceticus" FEBS Letters, 1979, Vol. 108, No. 2, pp. 443-446.
an	-	ISWANTINI, et al. "Electrochemical Measurements of Glucose Dehydrogenase Activity Exhibited By Escherichia Coli Cells; Effects of the Additions of Pyrroloquinoline Quinone, Magnesium or Calcium Ions and Ethylenediaminetetraacetic Acid" 1998, Bioelectrochemistry and Bioenergetics, Vol. 46, pp. 249-254.
an	-	MATSUSHITA, et al. "Quinoprotein D-glucose Dehydrogenases in Acinetobacter Calcoaceticus LMD 79-41: Purification and Characterization of the Membrane-Bound Enzyme Distinct from the Soluble Enzyme" 1989, Antonie van Leeuwenhoek, Vol. 56, pp. 63-72.
an	-	COZIER, et al. "Structure of the Quinoprotein Glucose Dehydrogenase of Escherichia Coli Modelled on that of Methanol Dehydrogenase from Methylobacterium Extorquens" 1995, Biochem. J., Vol. 312, pp. 679-685.
an	-	SODE, et al. "Preparation of Lyophilized Pyrroloquinoline Quinone Glucose Dehydrogenase Using Trehalose as an Additive" 1997 Biotechnology Techniques Vol. 11, No. 8, pp. 577-580.
an	-	"Glucose Oxidase" Toyobo Enzymes (1998).

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